

Blackburn, Logans, Twin,  
Oshkosh 1909 Adams.

(214. June, 1808).

*J. B. 19*

*B. S. Stevens*  
M. Office, State } —————, —————,

To AMERICAN EXPRESS COMPANY, Dr., —————

For Trans-  
portation of

Our  
Charges,

\$ ————— Cts. —————

From *W. H. L. L. L.* State } —————, —————,

Advanced  
Charges,

\$ ————— Cts. —————

Shipped by *Carver*

Duties, —————

\$ ————— Cts. —————

Date of  
Shipment } *6/2* Weight *37* lbs.

Amount  
of C.O.D. } —————

\$ ————— Cts. —————

Received Payment for the Company,

\$ —————

*H. A. Culver* (OVER.)

(214, June, 1908).

1908

Office, State  
of } \_\_\_\_\_

M

To AMERICAN EXPRESS COMPANY, Dr..

For Trans-  
portation of

3 Box

Our  
Charges, }

\$ \_\_\_\_\_

Cts. \_\_\_\_\_

From

State  
of \_\_\_\_\_

Advanced  
Charges, }

\$ \_\_\_\_\_

Cts. \_\_\_\_\_

Shipped  
by

Duties, }

\$ \_\_\_\_\_

Date of  
Shipment

Weight

lbs.

Total, \$

Amount  
of C.O.D. }

\$ \_\_\_\_\_

Cts. \_\_\_\_\_

Received Payment for the Company,

(OVER.)

## TRAVELERS CHEQUES

originated by this Company in 1891, are the most modern, economical, secure and satisfactory form of carrying funds for foreign or domestic tours. Payable in gold or its equivalent, without discount or commission, by 15,000 correspondents throughout the world.

## TRAVELERS LETTERS OF CREDIT ISSUED.

## MONEY ORDERS

of this Company possess advantages over all other safe methods for remitting money.

## RATES FOR MONEY ORDERS ISSUED IN THE UNITED STATES.

NOT OVER	NOT OVER
\$ 2.50.....3c.	\$ 50.00.....18c.
5.00.....5c.	60.00.....20c.
10.00.....8c.	75.00.....25c.
20.00.....10c.	100.00.....30c.
30.00.....12c.	Over \$100.00
40.00.....15c.	at above rates.

## FOREIGN DEPARTMENT.

This Company forwards Express Shipments of Merchandise, Parcels, Baggage, Valuables and Securities, and Freight Consignments in small or carload lots by every class of service to or from all Foreign Countries and the United States and Canada.

With its Offices and Shipping and Banking Correspondents at all principal Cities and Ports of the Commercial World, this Company is enabled to give the best and quickest Foreign Express and Freight service.

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made by this Company between points in the UNITED STATES and CANADA; also Cable Transfers to and from Foreign Countries.

## DRAFTS ON FOREIGN COUNTRIES.

Drafts drawn by this Company on all parts of the Commercial World.

Further information can be obtained at any agency of the Company.

210

~~683112.1m~~  
~~loss~~  
~~as~~  
~~number~~

~~683112.1m~~

~~loss~~  
~~as~~  
~~number~~

~~683112.1m~~

The Logan Observer  
Mr. J. C. McCabe  
editor

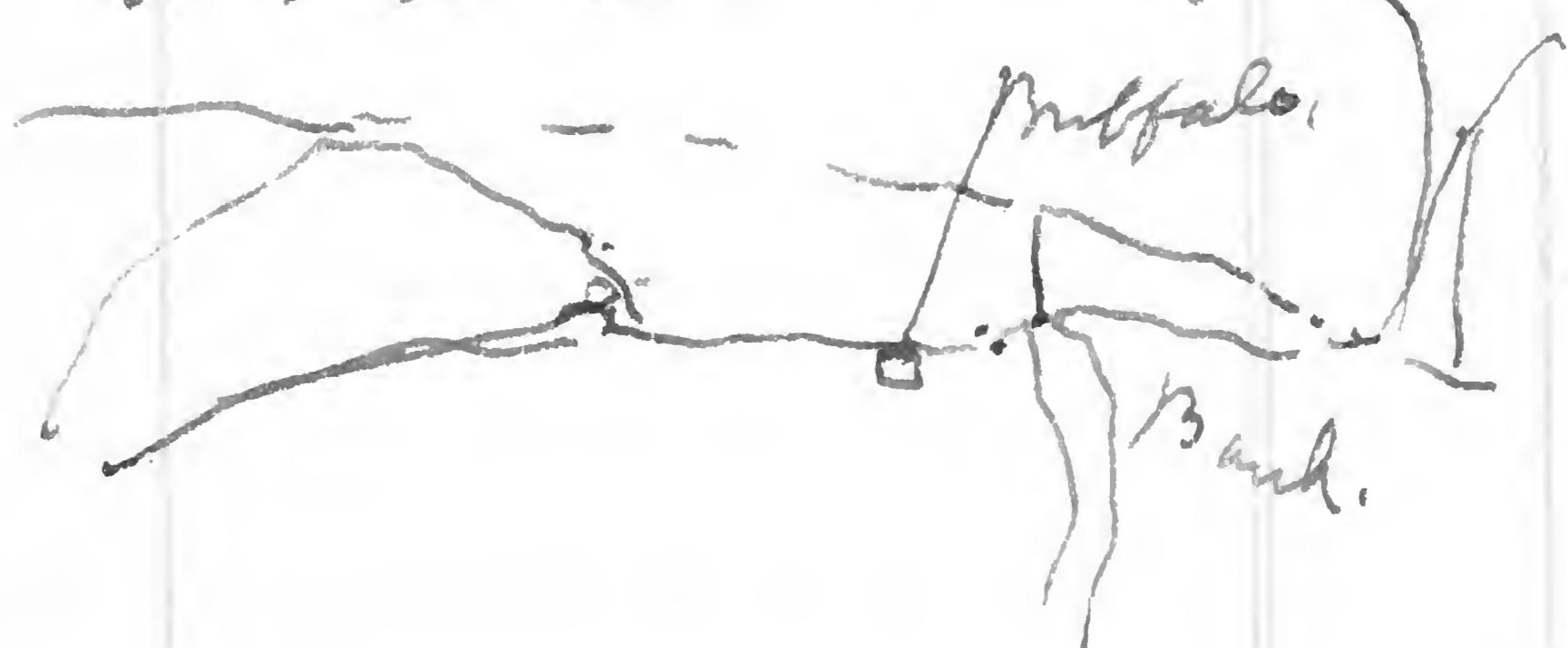
Mr. Almon Stern.  
Logan, Iowa.

May 22, 1909 3

Photos 13 & 14

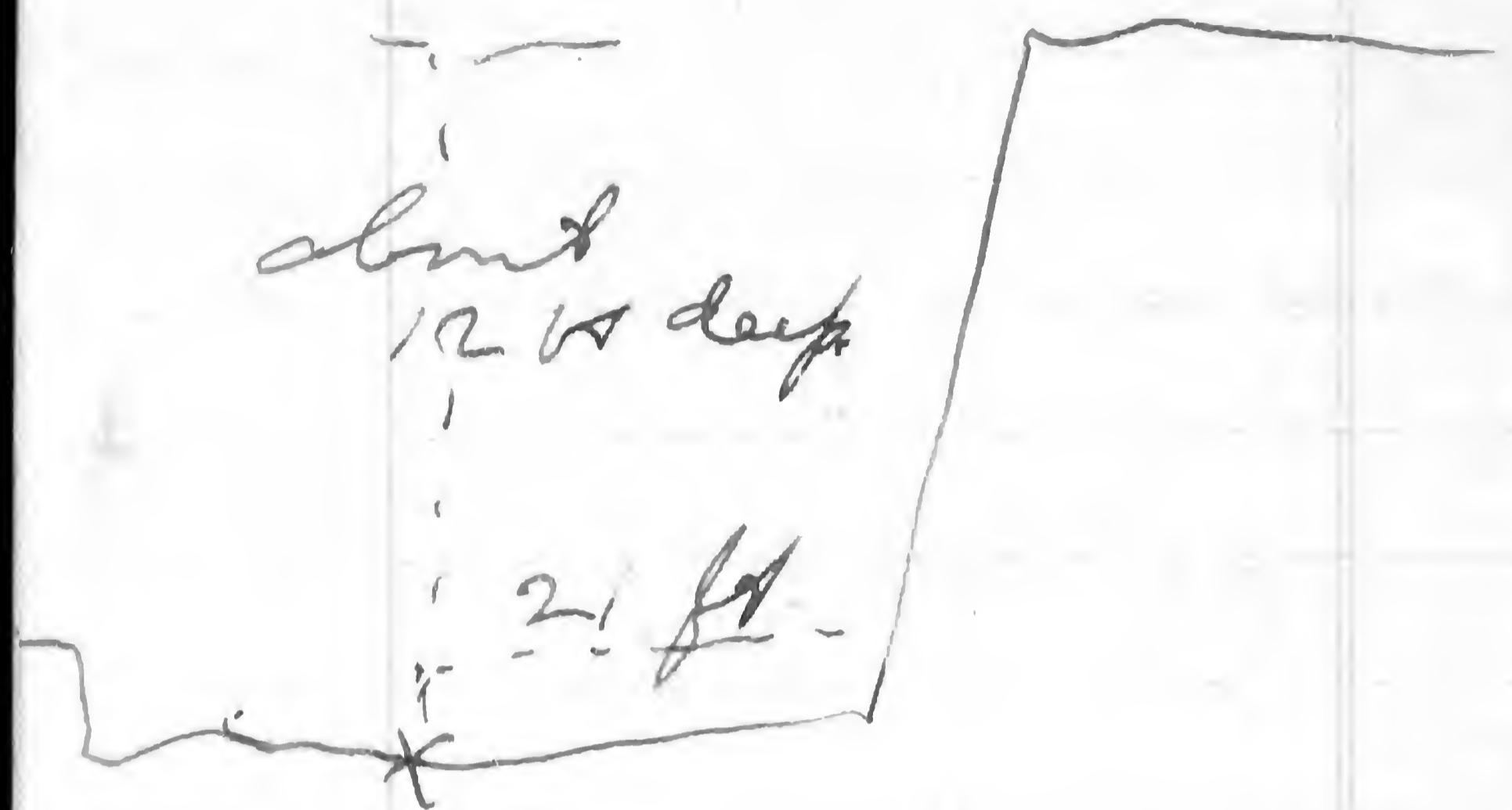


Photos a & b (nearby)



The material is hard on  
drying, looks lacq.-like,  
but duller, no laminations  
as in a sort of gumbo (not  
extreme).

It looks like alluvial  
material. Has streaks



and down (thin) I  
came soon to even  
small pebbles, below.

The skeleton was  
apparently about  
entire but was  
damaged by scraper.

From a Limestone, a  
number of Pyram.

alternati, 1 Polyzon  
proboscis, one  
Felidodiscus, one  
Vitrea hammonis,

5

a Polyzon has a two.  
The whole thing reminds  
me of the yellowish  
alluvial deposits  
near before in this  
region.

Mr. McCabe's well on  
~~terrace~~ at Logan is  
62 ft. deep, about  
a foot in sand, &  
a little more gives  
gravel.

Above this is a heavy  
clay, - about as heavy  
as the clay in Buffalo  
pit.

Photo c, d.

Prairie at Cemetery

Photo e, f.

Quarry —

X = Grindap to Logan.

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Plants seen in general  
prairie on way to Logan.

? C. *Pedicularis canadensis*  
x C. *Viola pedata* "  
x C. " *sepplinifolia*  
x C. *Oxalis violacea*  
x C. *Lithophragma canescens*  
x C. " *Argyranthemum*  
x C. *Sisyrinchium campestre*  
x C. *Sisyrinchium angustifolium*  
x C. *Senecio balsamitae*  
x C. *Fragaria*  
Phlox pilosa  
*Dodecatheon meadia*  
x C. Blue grass  
x C. Dandelion  
x C. *Capella linni Antonii*  
\* *Artemesia* —  
\* *Astragalus canescens*  
x C. *Hyperis eruth*  
x C. *Comandra umbellata*  
\* C. *Rosa arkansana*

[C. are in Crawford co.]

x C. *Sympetrum calceatum* ~~occidentale~~  
x C. *Potentilla anserina*  
x C *Equisetum arvense*  
x C *Ellisia myrsinoides*

9  
Wet places in Horicon  
between Dousman & Loyal.  
Cat tail  
Grass  
Utricularia  
Orchids.  
Carex  
~~Carex~~ *Scirpus hirsutus*?

alluvial - Dousman & Loyal  
Ranunculus aquatilis  
Phlox diffusa  
Anemone canadensis  
Birches  
*Salix lucida*  
" *angustifolia*

July 2, 1902

Left Denver at 3:30 P.M.  
Reached Schuyler at 2<sup>20</sup>

A.M. July 3

Mr. Longsjo & Foller drove  
me to Clarkson.

Collected plant on  
way. Prairie.

(The man from whom I  
got Lison Co. is  
Jos. Bridich.  
The territory N. of  
Schuyler is flat for  
some distance, and  
then becomes rugged,  
like Kansas. It  
was practically all  
prairie, but now  
only strips along road,  
especially on swells show  
prairie flora. All else

(Mr. Jos. Munsil)

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is cultivated, or covered with weeds.

I spoke in English for 40 min. & Molina about 18 minutes, - all from 11 a.m. to 12<sup>30</sup> P.M.

In afternoon walked out on prairie, W. & S. the latter chiefly, at Mr. Jos. Pradicov's home, living almost pure prairie.

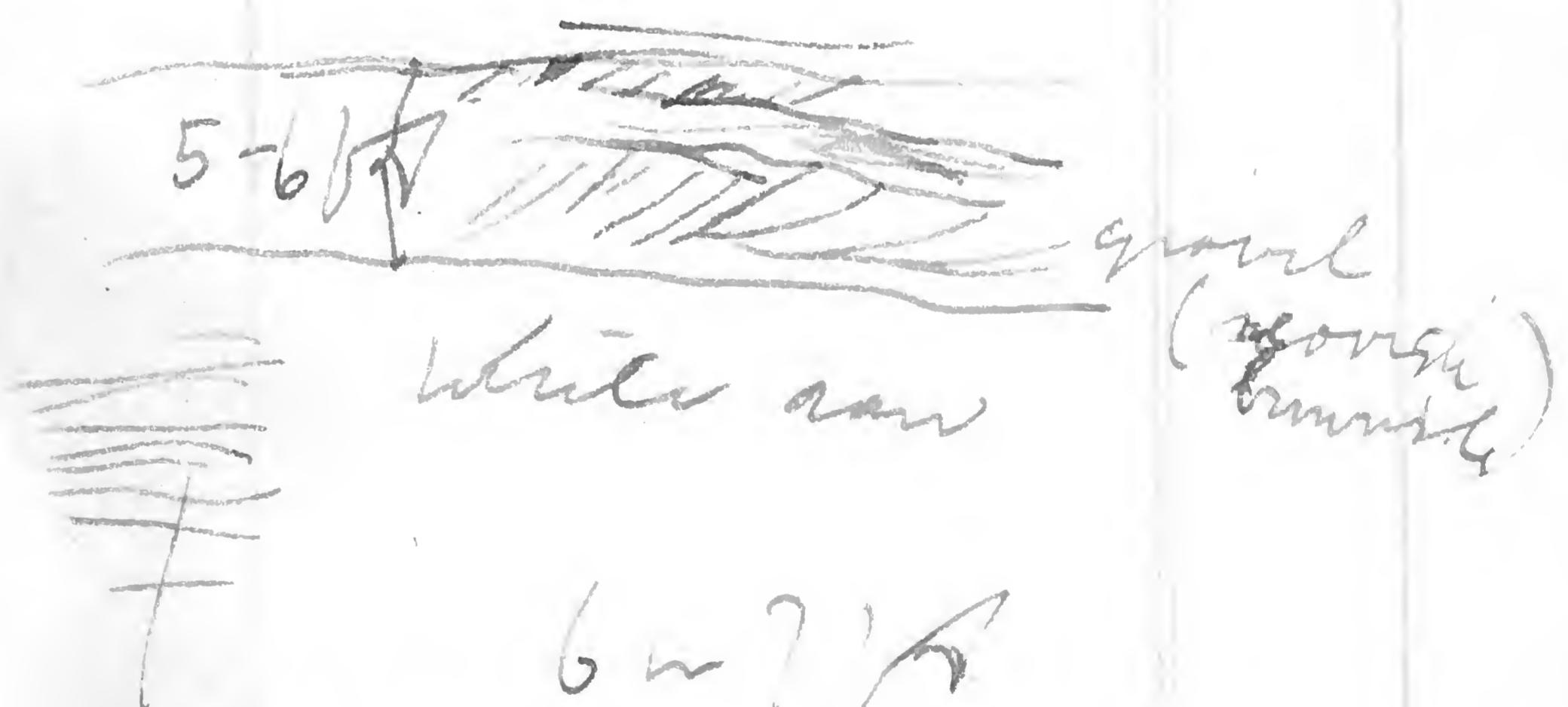
See plants.

Walked out with Mr. Longin Dolda & Mr. Hejtmánek, the latter Dr. Habenicht's son-in-law, & an intelligent, traveled man. Left at near midnight.

July 4 - (Rain)  
Rained frequent at 5 am. Left by U.P. at 6:30 a.m. & reached Duran at 10:30 a.m. Drove to Duran. - The bluffs are everywhere green, as in spring.

Collected plant on hill N. of Duran.

S. part of pit shows.



6-7 ft  
beautifully horizontally  
curvated.

Get tenses from  
Babcock.  
were taken about  
12 M. in same  
row.

15

July 5-1909

At Lagan, at the  
gravel pit at foot  
of bank. There is  
about 9 to 12 ft. of  
sand, cross-bedded, &  
an indurately 18 in.  
of gravel on white  
(Gunnisonian) limestone.  
There is no pre-karst  
here. - just as in  
young.

Charles L. Crow -  
Lagan, Id.  
Work up dates of surveys  
of Missouri river.  
Mr. Crow can supply  
some. Has Nicollet  
map & map of 1867.

July 16-1909  
Left Iowa City at 7:30 AM  
& Cedar Rapids at  
11:55 AM. for Omaha.

At Minpit - Mr.  
Bullock says that in  
boring at New Pit  
they struck a "dark  
clay like rubber"  
U. of present part & <sup>the</sup> ~~the~~  
of old part. on gravelly  
part there is a  
layer of nicely stratified  
clay - parts bluish  
some red (orange) &  
more dark.

About 2 ft. of this  
grads down into fine  
sand.  
In previous pits (S.) the

gravel bed is  
on top of fine  
bed of whitish  
sand.

In coming into the  
valley the staff  
they struck  
gravel here &  
there on it

gravel river.

Some whitish  
sand

These are rounded brown  
sand tubes in white sand.

I believe one for 1/2 ft  
& it is evidently a  
sand tube filled with  
redder sand from above.

The pit up at  
the lookout <sup>spaged top</sup> shows  
the turbulent  
condition first out.

Two plumb fine  
lookout, looking W.

Certain pit is  
badly shumbered, &  
we made out  
nothing new.

The Kansan here  
is very prominent  
and thick & shows  
foreland above.

at the well up  
at the Joe-Kaser  
is in heaps, &  
in crushed state  
is whitish, but  
black within.  
It breaks up into  
very small cubes  
& contains bubbles  
& particles of coarse  
sand.

Put up at Cedar

In the Orana Weekly  
Democrat I found  
a ref'rent of  
some news from  
the Democrat of  
July 1890 containing  
the following:  
"There were four

brickyards in Monroe  
county at that  
time, one at the  
Castana, Moosehead  
and Round Grove,  
in Sherman township.

At Minn Mr.  
Mattison  
had many boxes  
of Bison - cow  
& bull.  
Will see him  
tomorrow.

In P.M. started  
new toward  
Kemmer.

Took photos in sec. 15 & 16  
S4-44 - looking S. E.  
The long bare ridges  
even on sheltered sides  
of great divides are  
bare.

2. Webster

2. ordinary

n. part of 26  
in the S. part of sec. 17 -  
S4-44 is a very deep  
cut in yellowish brownish  
(below) brown. Fair  
modulus, no hills.  
30 ft. deep  
(See photos.)

Also took photo to  
lower ridge S. E.  
from same point -  
telephoto.

At the location just  
across the valley  
east of Kemmer  
show on top. Then  
transition from  
Afton in belt A  
first a few &  
then Kemmer  
takes.

Christ. Mathiasen  
Turin, Da.

July 18-1909

Went out to Jordan Mts.  
to look into Beaver cr.  
bone beds.

Spotted at G. F. Struble, Jr.  
Gave us deer-head. (give  
credit.) & identity  
New bone bed  
creek valley in  
about 18 ft. deep  
& about 35 ft.  
wide. (the larger  
part about 4 ft.)

in lower darker blue  
black sand (like  
substitution material  
but darker colored)  
& in this are streaks  
of sand. (Sandstone  
further down, like  
gravel way)

In this black  
sand I found  
well worn a tibia  
& fibula (long &  
big at end) 15  
ft. from top  
There were also  
very broken slabs  
& fragments besides  
Limestone, Sandstone &  
Cimestone (?)  
Also pieces of  
carbonaceous rock

Saw a bed of  
 rock a stony  
 area containing  
 & broken st  
 ronely. (Is  
 this the English  
 sand of logs?)  
 With number of  
 black rock.  
 A portion of it up  
 the stream from  
 today (the base  
 of blue bed)  
 appears.  
 From a lower  
 part of same  
 in layer of sand  
 (the black in)  
 about 15 ft.  
 below top in  
 bed of rock at

water level  
 From base of  
 black bed  
 directly under bed  
 of sandstone. Boulders  
 are frequent on  
 this bed  
 streaks (sandstone)  
 About 100  
 feet or 100  
 more - about  
 30 yds of sand  
 of 2 ft. thick -  
 two rounded  
 boulders with  
 30 yds left there  
 was no yellow here  
 & Mr. Sturtevant  
 drove over angle  
 Within the last ten  
 years most of the

washing was done,  
 Deer were very  
 abundant (as)  
 went over into our S.  
 on Mr. Strubbe's other  
 farm, & here in  
 deep valley of  
 Maverick  
 were found: buffalo  
 bones & a pretty  
 deer horn.

Mr. F. Strubbe  
 Castana, Ia.

Row of fine cottonwood  
 in W. E. 4 mi. N. B.  
 Jordan.  
 Took photo.

The fine Melicite  
 bench is higher at  
 its west border,  
 probably 40 or 50  
 ft. higher than  
 general level of  
 bench.

All the bench  
 is covered with  
 grass.

July 19-1909  
 Drove to McLean's  
 pit & to "Buffalo"  
 creek (Moundville  
 called at Master's  
 creek, & the  
 man on the place  
 called it Lost  
 Park creek)  
 The skulls came  
 from:

one was heavy like  
 stone, & was taken  
 from 5000 ft.

Our skull came from

Sec. D. & rock  
 layer from S. E. &  
 Mts.

There as follows in  
 and 2+

Cutter Park

the Woodward  
 place (89 1/4 24)  
 may have been  
 one which they  
 owned. This was  
 in 2.5 of sec. 36  
 Maple Loop.  
 But more likely  
 sec. 24 - Center.

(Had much of this  
 information from  
 Mr. Edwin Quick  
 at Whitney's Bank.)

Mr. Edwin Quick

On Mr. Silas Melling  
in sec. 34 (near  
center) (Covered now  
by crowd & son.)  
Four buffalos  
skulls at 14 ft  
on upper bank  
(on quite a knoll).

Mr. Quirk has another  
of a deer taken  
in draw, with  
well up.

Mr. Albert Livingston  
is digging a well,  
15 or 16 ft.

This was on W<sup>1/2</sup>  
of the S.E. 1/4 of  
sec. 16 - copper up  
184-42.

From Mr. Quirk

(creek S. of Mokelumne  
is Murky creek  
near school house in  
S.E. 1/4 of 30 in  
Copper Mts. were  
found two skulls  
in deep gully  
along creek.

These were buffalos  
skulls, one very  
large.

(First plates in 4 in -  
in the Whitney Elephant  
imperforata tooth)

June 14 - 85-43

[35]

Look up discussion  
of buffalo in  
Wallace Tumon?

Mr. Whiting knows  
of man who killed  
buffalo.

Cash J.B.P. Day  
about bones in  
Antediluvian Hollow

Drove N.W. with Prof.  
Caldwell to Hawllion  
Flats.

Mr. C. A. Hawthorn  
says that in his  
elder pit there

was coarse material  
but in the big pit  
was bone, the  
shells are regular.

Bones were found  
pink, & yellow  
otherwise the few  
white.

White sand in big  
pit was at first  
about 6 ft. below  
surface, but deeper  
further back.  
At the base a joint pebbly  
clay (Kansan)

The line between the  
two was level &  
markedly defined, white,

Sand very white at  
top.

About 16-20 ft. of  
sand (yellow) &  
then vein of gray  
clay - 1-2 in.  
Then sharper, coarse  
white sand, 2 ft.  
then thin layer of gray  
clay  $\frac{1}{2}$  in.

Then very sharp clean  
white sand, 4 ft. (about)  
Below this a place  
clean fine gravel &  
sand thin coarse gray  
few in. to 2 ft. in  
pockets.

Below this "a red  
tangy "potter's clay"  
kind in color, sand  
ft - very hard, dry

Not yet through it.  
probable to sand in this.  
(Wm. F. Ladd - owns this)

On another part - large  
boulders in coarse sand  
by 2 rows of paths across  
gully. - 5 or 6 rows.  
Cross 1 ft. long.

The pit is now badly  
slumped, but shows  
yellow band at top  
& then distinct red  
yellow band 4-5 ft.  
There is an also dark  
band (coil) 2-3 ft. 2 ft.  
~~bottom~~  
in thickness.  
Never above -

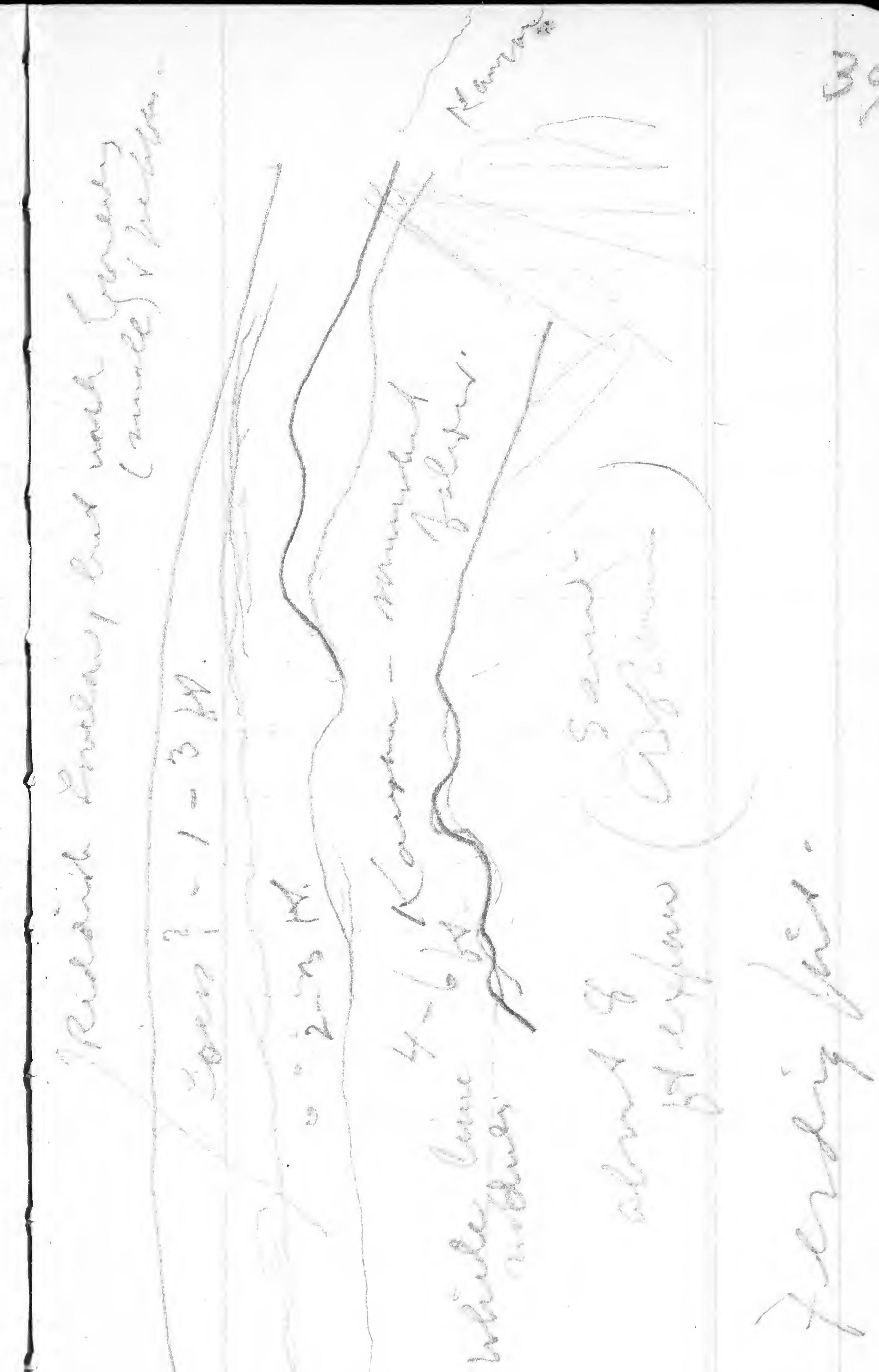
Below the top  
Kanawha

Ferdig's point is in S.E.  
corner of sec. 10 - 84443

W. S. Ferdig (his  
father)

About 10 ft. of sand  
below the white  
lime.

Below this a tough  
pebbly clay, yellowish  
varies, gravelly in  
some places & then  
stony.



Ferdig's point

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The lake below  
is not more than  
a thousand feet wide.  
In fact, there is only  
a little band of  
water between.

This is broken, with  
limestone, & red sand.

It is 5-8 in thick.  
The Karst is very  
cindy & broken,  
with sand hills  
etc.

Lakeside Lake  
August, 1909

Left Iowa City, Friday  
31, at 8:30 + Ceda  
Riverside at 12:35 AM  
for West Okoboji.  
7 am to C.R. - .50

" W. Okoboji 4.50  
bus fare .15  
boat (over) 50

August 1 - Sunday

Reached the lake  
about 10 am. +  
launched up.  
At 11 am. Sunday  
service - Dean  
Evans of Doke Law  
School talked,  
in the afternoon, after

services

Took dinner at  
Miller Hotel

Lounged & looked  
about in afternoon.

Aug. 2 - Monday

Mr. C. F. Brower, Miss  
Louise Falk, Mr. John  
J. Bruchholz left.

I studied the local  
flora, arranged my  
belongings, and  
tried to get my  
people together, but  
found Teacher, Thomas  
& Puckett away, &  
others were still  
unsettled, Wilson  
being the only one  
to appear, Wyllie packed.

<sup>45</sup>  
we adjusted 2<sup>nd</sup> mess &  
left Mrs. Davis, but  
discharged Charlotte's utter bad  
prejudice toward human plants.

Aug. 3. (Tuesday)

Dr. Wyllie and Whedon  
left on their trip  
down the Iowa.

Mr. Knupp left.

Thomas & Puckett appeared  
& later (while I was  
gone) Teacher came  
back.

Went over to Arnold's  
Packer took 10<sup>45</sup> am  
train for Spirit Lake.

Purchased old paken, &  
had dredges & evaporating  
pans made.

Returned by boat  
(Des Moines) in  
evening.

In morning I discussed  
work with students.

Aug. 4 (wed)

Set up evaporating  
pans at stations  
1, 2, 3, 4, 5, 6 & took  
readings (see notes)  
(for description of  
stations see pp.  
64-67)

Dreaso for molluscs  
in bay. Bathed.

47

Aug. 5 (Th)

Mrs. Prichett (who had  
been here for a day  
or so) left.

Took readings at  
intervals all day.  
This was the day  
when practically  
all the day was  
given to these  
observations.

I also discussed shells  
& plants with  
the students who were  
here: S. B. Frasher

Raymond Holman

Mrs. Eta Gardwell

" Eva Varney,  
Miss Brown did not  
come in.)

Aug. 6 (Tue)

Took evaporation  
observations, aided  
by Wilson, etc.,  
worked locally,  
partly N. Y.,  
have lecture  
on the Sonoran Desert  
in evening.

Aug. 7 - Sat  
Took evaporation  
observations with  
assistance of Wilson,  
McLain, Miss Varney,  
etc.

Went over to Arnold's  
Park and got  
Miss Conaway &  
Miss Margaret McElroy.  
Miss Tracy also of  
course.

Aug. 8 - Sunday.

Rained a little a.m.,  
Rev. Jackson of  
Estherville conducted  
Sunday services  
assisted by Rev.  
McClure, Wilson's  
pastor, from Cripple  
Creek.

Lunched about, wrote  
arranged plants  
in front, etc.  
Took three readings  
of crop, apparently,

weather of the several  
gardeners. Rain on  
table, & the rain  
to continue on the  
garden beds for it.

Aug. 9 - (Mon.)

It looked very stormy  
in morning & we  
did not go to Estherville  
but took a walk in  
readings, & collected  
some <sup>waterfall</sup> plants.  
Miss Drew came  
in on <sup>the</sup> 11th in the  
forenoon.

Aug. 10 (Tue)

Took trip by launch to Orleans & caught train for Estherville. Very hot. Pritchett remains at Orleans.

Mrs. Dins, Lucy & Mom Davis and Fraher were with me. We worked up prairie flora N.W. along C.R. I & P. Rd. & then collected a few plants and shells near dam on Des Moines river, walked out about 2½ miles.

Returned in evening by launch, launched in way, took my toy dc dam in leather bag. Found St. Croix (crack) Wilson took readings.

Aug. 11 (Wed)

Looked after malacol, too coop. mornings and worked S. for miles & plants.

The little swamp S. 3 miles had a lot of woods found no suitable.

Aug. 12 - (Thurs.)

(2) Made up in  
excavation, Min.  
enough to begin.  
Frustas from shell  
with a little above  
of Miller's clay &  
I got a lot of it.  
Worked at it a  
little.

55

Aug. 13 - (Friday)

Howard Freeman identified  
shells & plants, &  
making out sets of  
shells.

Miss Varney left.  
Spent afternoon in  
local park.

Aug. 14. (Sat.)

Washed sheets &  
plants in forenoon,  
then walked to  
Arnold's Park with  
Mrs. Buckley &  
Mrs. Duran.  
Mrs. Duran's train  
was late and  
she had to return  
before the Rev. Mr.  
Graham came.  
Fished near draw  
bridge at Oshkosh.  
Returned & fished  
slipper pens of  
planted in  
Twin Highlands  
Caves at last but  
only met with it

Aug. 15 (Sunday)

Wash done left car.  
Spent day in  
arranging & packing  
and secured some  
plants.  
Rev. Perkins of  
Watertown, S. Dak.  
celebrated service  
in the open air at  
the hotel. Again  
without the use of  
Rev. Graham had  
a service. The young  
lady closed out.  
Collected ferns  
at the same time &  
was absent on  
Johnson's Park.  
(Community Park)  
(see p. 61)

Lakeside LakeAccounts

Received from:

Aug. 2 1 C. F. Brower 3 meals .50  
 " 1 Louise Falk " .42  
 " John Buckholz 10 " 1.50  
 " 1<sup>st</sup> Luton-Fair 16.9 3.75.  
 " Whedon 3 meals .45  
 Aug 3 4 from Mr. Blunt (meals) 1.50  
 " Mr. Knapp (over) <sup>1.50</sup> 10 meals.  
 " Dr. Wyllie - 28 meals \$4.20

Aug 5 from Blunt 1 meal  
 (for Puchett) 1.15  
 from Mrs. Puchett meal 2.00

Aug 8 Luton 1.00

Aug 10 Bertram Puchett 17 meals 2.35

Lakeside Lake 59Accounts

Paid - Aug. 3 -

Dredge <sup>50</sup> cutting <sup>30</sup> 6.80  
 5 ft. belt - Puchett .25  
 Whedon - supplies 1.00

Paid Aug. 4 - old meals

for left over meals 6.81.  
 (Dr. Wyllie was paid \$1.00 for balance)

Paid Aug. 7 Laundry  
 (one bill) .48

Aug 13  
 Paid meat .80

Received Aug. 13

S. B. Fricker

2nd-rent \$ 1.50

Aug. 14.

Miss Doway -

Rent - 2 weeks \$

Aug 24 - 4.30

Millin 2.50

Mrs. Bardwell

Rent. 2 weeks 4.30

Institution 2.50

(Cost for ice cream pugs)

Aug 16. Miss McElroy

Room rent

Aug 6-16 - 2.50

Bread 3.00

" 2.25

Miss Mad. Dues - 2.00

Millin 2.50

Meat. - 1.90

Aug. 16 (Mon)~~some~~  
~~Did local work,~~  
~~and collected plants~~  
~~time for living fee~~  
~~the laboratory.~~

Identified plants

for Wilson,

Mrs. Bardwell

left.

Miss McElroy left 5<sup>30</sup> am

Went to Spirit Lake

+ Orlon by launch,

collected plants, +

shells.

Miss Cough, Miss Brown

Miss Doway + Fricker,  
were in party.

(See p. 63)

(see p. 61)

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Sunday, 1/

" 2

" 3

" 4

" 5

" 6

" 7 Rev. Gardner

Sun., 8

" 9

" 10 - Elizabeth traps

" 11

" 12

" 13 Miss Varney left

" 14

rose-brownish Park - down

Sun., 15 miss Davis left. Open.

" 16

Mrs. Randall left

" 17 - Wilson left

" 18

" 19 coll. S. & N. Miss E. left

" 20

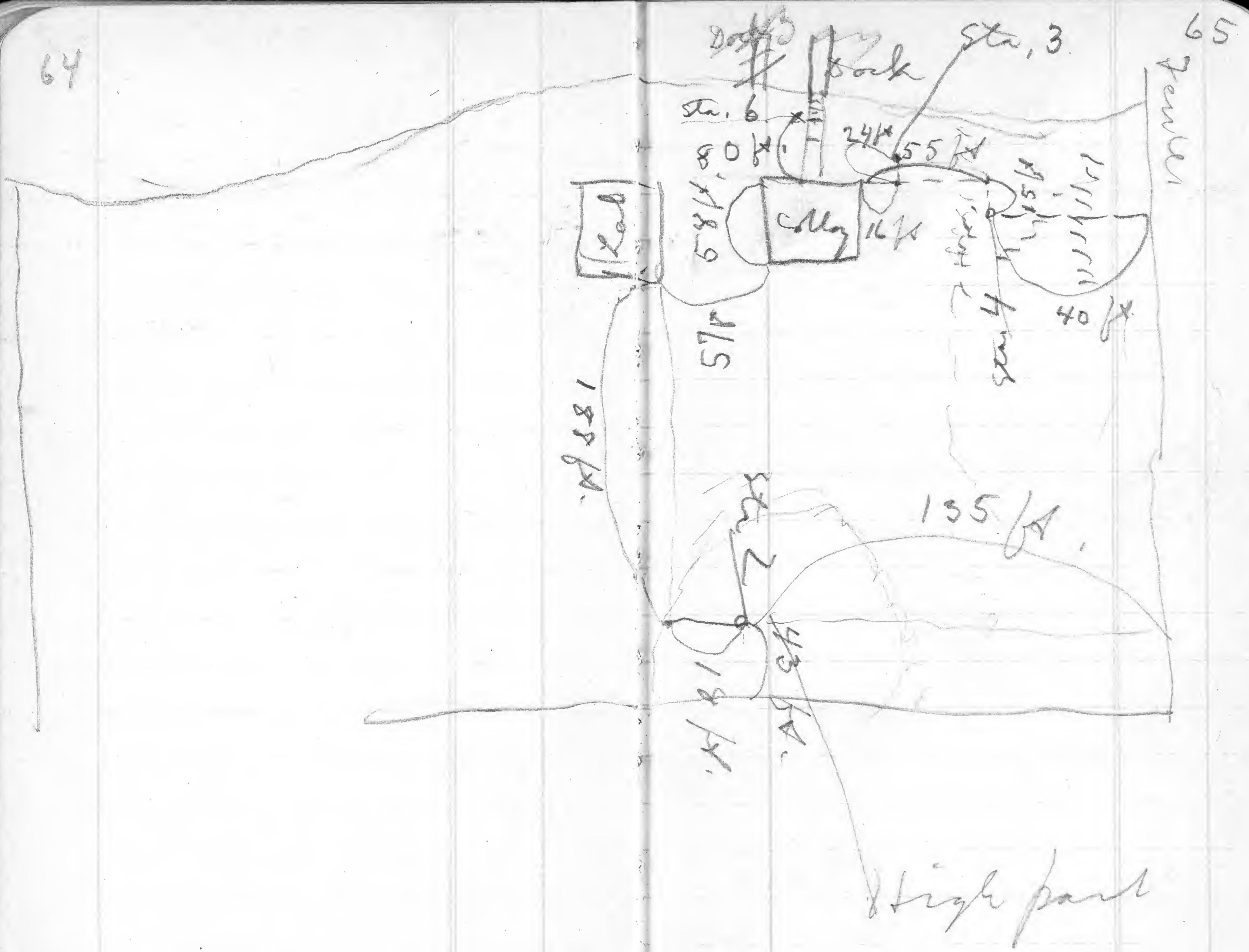
Aug. 17 (Tue.)

Mr. & Mrs. Wilson Sr.  
& son Raymond  
left for  
Milford.

Spent day in  
labor work, changing  
drives, running  
lab., and fishing.  
Also worked  
about lab.,  
cleaning up, etc.,  
& painting.

(see p. 69)

64



66

Sta. 1 is on top of high bank,

2 - on open beam slope

3 - in open - beam

4 - in grove of low oaks.

in wood near stream

5 about 100 yds W.

8 S. of (4)

6. about 11 ft. above lake

& about 14 ft. W. of

stone line on beam  
bank with

~~grass~~, *Symplocos*

*Blumea* ~~fallax~~, *Actea* (mouth)

*Helenium*, *Knautia*,

*Eryngium*, *Phlox*

*Artemisia ludoviciana*, etc.

*Cirsium altissimum*

67

2000 ft. 5

farther up

W. H. Road 5

15 ft.

13

about 260 ft. (top)

243

Aug. 18 (Wednesday)

Fishers Home

Planted plants &  
telescope.

~~Collected & painted~~

more plants, from

~~U. of Minnesota~~ May

Called on Mr. Beck

at Inn & examined  
dying trees, were  
affected with caterpillars,  
flat scale insect, insects,  
and galls.

Transect especially

land where trees

on slope were

explosed by the

removal of trees

along shore to

give greater

view of lake.

Aug. 19 (Sun.)

Collected plants N. & S.  
W. ~~W.~~ & helped some  
choose drawings.

Went to the  
Gardens & Amherst  
Park.

Then to Amherst &

Wellesley for up

to Belmont & back.

On returning I  
collected plants  
of former visit

Some  
Purples &  
purple hearts.

Aug. 20 (Mon.)

Wrote breakfast & dinner &  
Collected plants  
chiefly N. &

W. (Primer) &  
put them into  
box. Packed

at 1 P.M. left  
for Springfield  
by the Boston  
H&G. Train  
8:00 a.m., 12:00  
& packed of plants,  
etc.

Arrived by way  
of West Springfield  
& found R. I.  
Capt. on train  
bought for  
lunch in city.

Aug. 21 (Sat)  
O. arbus & closed up  
in any. Marlboro  
left early.  
Came on  
wallace, etc,  
& closed up  
generally.

Located my  
station (see  
pp 164-67)  
had breakfast &  
dinner at Miller  
Hotel.

Left at 1 P.M.  
by the Des  
Moins & Pa  
Sprint light  
I sleep 3 bunks  
to the Valley

& then walked up  
to Oregon & collected  
shells along the  
shore. Then  
walked again at  
Oregon & collected  
& visited until  
about 6 P.M. when  
my train left  
for Sidney.  
My checkers not  
easy found to  
arrive.  
Put up at  
Windsor Hotel  
at Sidney.

Aug 22 (Sun)

Left Tibby at  
4:33 am &  
reached Forest  
City at 7:20  
Had lunch &  
went on to  
Miami Valley.

Arrived at 10 am.  
Rained some.  
Stayed at the  
Wilson.

After dinner  
drove out to  
Cox's & got  
gray lichen.

Mr. Peter Cox also  
has fine brachiolar  
corals, which I  
will get later.

Visited at Cox's  
then drove  
to ridge W. of  
Troy & along  
road to eastern  
Bluff on  
S. ridge and  
at 8:15  
met a wife &  
young son Parker  
of Ohio State who  
are in market  
selling at  
Chattanooga.  
They are  
a native wine  
on the geological  
formations, &  
begin wine  
a little esp.  
that the shrubs

fellow they encountered  
knew anything about  
it.

Received my  
mail come at  
9:20, & left  
for Cava Refinery  
at about  
10:30 p.m.

Aug. 25 (Mon.)

arrived at  
Cava Refinery at  
5:25 a.m. &  
left for town  
city at 6 a.m.

May 9-1910

went E. of cemetery  
into John Irish woods.

Found hazel, Viburnum  
*Accuminatum*, & many other  
things badly nipped.

May apple was down  
& many flowers & buds  
frozen.

*Polygonum multiflorum*,  
*Viola* —, *Ranunculus*  
*rebelior*, *Nicotiana*  
*medium*

seemed to be sound.

Horned Lizard  
Painted Garter Snake  
Prairie Rattlesnake  
Coyote  
Coyote  
Prairie Falcon  
Quail

*Psedixia maniculata*  
Cape *ovata* (Miel, K. Kahl.)  
*Glaucomys* *albicauda*  
*Leptotarsus* *melanurus*  
*Rhabdomys* *dilectus*  
*Spalax* *leucodon*  
*Spalax* *oliveri*  
*Arsilorus* *lorquinii*  
*Spalax* *leucodon*

*Hypolecytum*  
*Styphelia* *virginica*  
*Oxalis* *stellata*  
*Arisaema triphyllum*  
*Lysimachia*  
*Lonicera*  
*Alstroemeria*  
*Myrsinaceae*  
*Porephyllum bellidifolium*  
*Myrsinaceae* (?)  
*Primula* *caroliniana*  
*Dodecatheon*  
*Macrorhynchium* (?)  
*Ericaceae* *virginicum*  
*Thlaspi* *virginicum* (?)  
*Scrophulariaceae* *virginicum*  
*Brassicaceae* *virginicum*  
*Cypripedium* *parviflorum*  
*Parthenocissus* *virginiana*  
*Asplenium platyneuron*

*Polygonum* *virginianum*  
*Viola* *canadensis* (having)  
~~*Asplenium platyneuron*~~  
*Cochlearia* *virginica*  
*Heuchera* *acuminata*  
*Artemisia* *virginica*  

1912  
(Later added)  
*Aquilegia* *strigosa*  
" *gryposepala*)

Reserve 5000 ft.

Fraxinus nigra (L.) Stev.

Polygonatum multiflorum

Actaea spicata L.

Pyrola rotundifolia

Pyrola rotundifolia

Pyrola rotundifolia

Pyrola rotundifolia

Pyrola rotundifolia

Pyrola rotundifolia

Sympetrum canescens

Pyrola rotundifolia

On the mountain

Clearings

form a long

ridge covered

of Silver fern

Polystachys

Rumex acetosa (L.)

Trichopteris pilosa (L.)

Pyrola rotundifolia

Leucilla flava

Leptobium ciliatum

Pyrola rotundifolia

Cardamine amara L.

alluvial

bullock's oriole  
cinnamon teal  
common yellowthroat  
downy woodpecker  
green heron  
ring-billed gull  
yellow warbler  
yellowthroat  
black violet  
red wing  
blue oak  
big cedar  
black birch  
poor boy  
swallow  
downy  
big cedar  
greenlet  
gray cloud  
crab  
spurred solereder

N. Amer.

alluvial fern  
sericea platirh. (very com)  
platyrh. siliqua  
Brachyscome hispida (red)  
Hedysarum occidentale  
Veronica virginica (dry)  
Poa trivialis (dry)  
Lychnis viscaria (white)  
Verbena pedatifida (Pr)  
Logfia aquatica (dry)  
Sisyrinchium campestre (W)  
Potentilla canadensis  
Lychnis viscaria  
Dulichium americanum  
Lilium longiflorum  
Lilium canadense  
Cypripedium acaule  
Adonis vernalis (dry)

Dill's Hill

June 27- 1909

*Eriogonum canescens* fl. + a.  
*Trifolium pratense* fl.  
*Poa pratensis* fr.  
*Coronilla palustris* buds.  
*Reseda luteola* lvs.  
*Rubus eupatoroides* var. <sup>lvs.</sup> ~~canescens~~  
*Heuchera thunbergii* canadensis fl.  
*Solidago nemoralis* fl.  
*Epilobium canescens* lvs.  
*Potentilla arguta* lvs.  
*Scutellaria parvula* fl. & fr.  
*Actella villosa* fl.  
*Calochortus nuttallii* fl.  
*Castilleja pallida* lvs.  
*Scutellaria canadensis* lvs.  
*Scutellaria canadensis* lvs.  
*Polygonum perfoliatum* fl.  
*Euthamia altissima* lvs.  
*Oenothera biennis* lvs.  
*Monarda punctata* lvs.  
*Bistorta viridis* fl.  
*Aster divaricatus* fl.

*Isobella spicata* fl.  
*Syngonium aethiopicum* lvs.  
*Andropogon furcatus* lvs.  
*Veronica bracteata* fl.  
*Plantago rugelii* buds.  
*Rhus glabra* buds.  
*Artemesia sphaeroides* fl.  
*Aurum cyprioticum* fl.  
*Koeleria cristata* fl.  
*Rubus hispida* fl.  
*Ambrosia artemisiifolia*  
*Velutaria stricta* lvs.  
*Melilotus alba* fl.  
*Scirpus stans* lvs.  
*Playpaeus pubescens* lvs.  
*Cassia chamaedrys* lvs.  
*Heuchera* fl.  
*Physalis* fl.  
red form flowering buds  
*Nicotiana cataria*  
*Clethra alnifolia* fl.

*Asterias syriaca* Ls  
Rubi rosaceae fr  
*Specularia foliolosa* Vg  
*Antennaria cordifolia* L.  
*Baptisia leucantha* fl.  
*Rosa multiflora* fl.  
*Medicago polymorpha* fr  
*Abutilon theophrasti* fr.  
*Oxybaphus myriophyllum* fr  
*Allium canadense* fl.

1910

Adams - Saw July 16  
*Denudaria illinoiensis* fls  
Corynandra grande? fls  
Ranunculus mexicanus? fls  
Ostrya carpinifolia  
Lactuca ludoviciana  
Corynephorum  
*Physalis viscosa*? fls  
Liquorice fructicosa fls  
Pectis pectinata fls  
Gilia ciliata multiflora  
*Myrsinella* glandulosa  
Artemisia ludoviciana  
Posthumous nobilis  
Apocynum cannabinum  
Moldavites reflexa  
Scrophularia lanceolata  
Elymus caninus  
Cheiranthus leptophyllum  
Veronica canescens

Veronica stans fls  
Paeonia elatior  
Emblema multiflora  
Agrostis alba var  
Plantago canescens  
Eryngium v. foliaceum  
Cyclamen alpinum  
Rhus v. ciliolata  
Lactuca canadensis  
Crotalaria glauca  
Heuchera canadensis  
Dulichia variegata?  
Pinus strobus  
Ceanothus americanus  
Polygonum avicinatum  
Aralia nudicaulis  
Ostrya shrevei  
Cypripedium acaule  
Lobelia cardinalis  
Polozia Cratylia  
Aster glaber

~~2~~ *Ulmus americana* Nuttall

*Urtica dioica* L.

*Fragaria ananassa* L.

*Rosa* L.

*Artemisia caudata*?

*Ambrosia artemisiifolia*

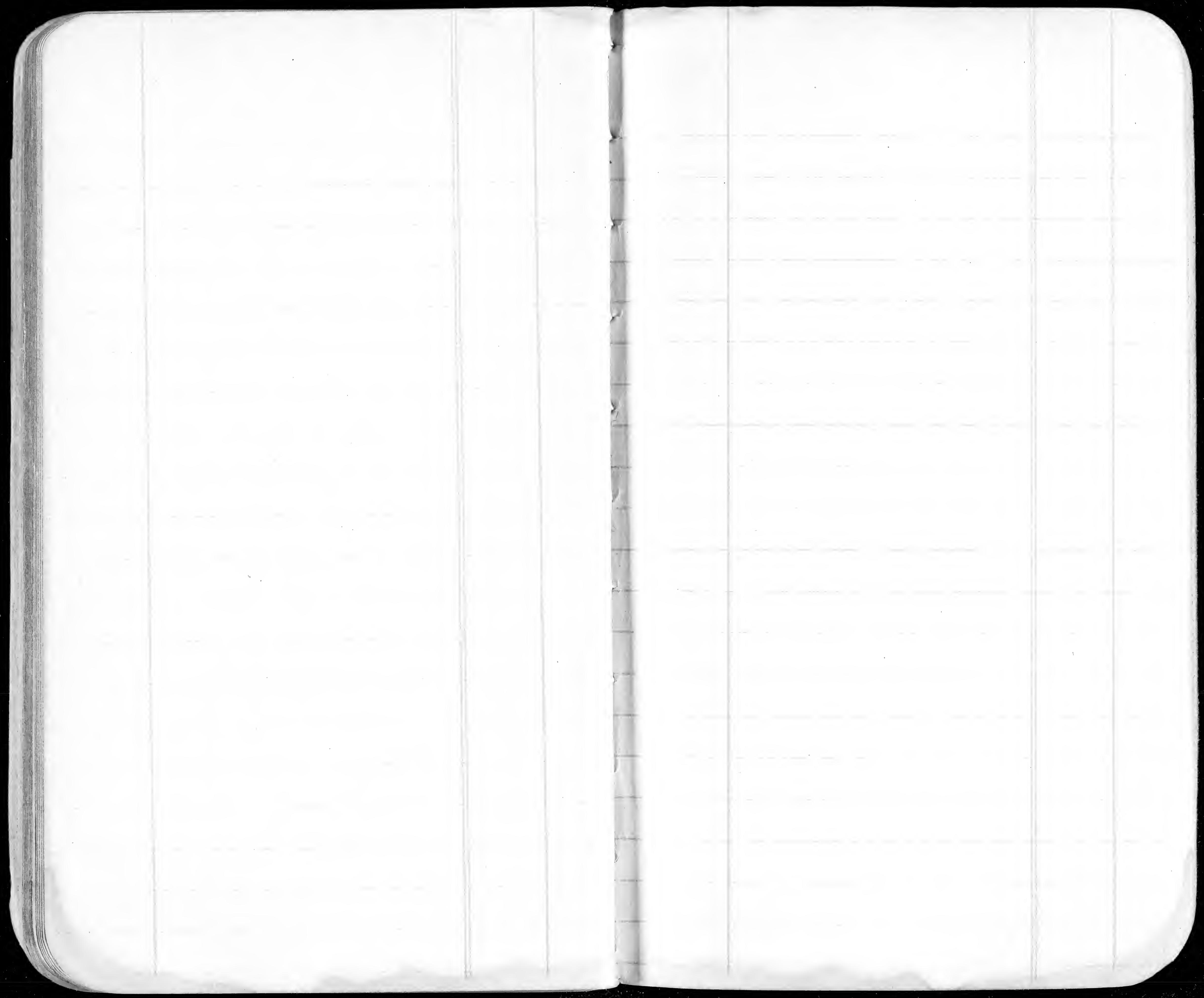
*Oxybaphus pilosus*

*Pentstemon canescens*

" *purple*

*Castilleja pallida*





Expenses - Oshkosh

RR to W. Oshkosh	4.50
In city to CR	.50
In Oshkosh to Lab.	.50
To Shinn's Lab.	.50
W. Oshkosh to Lab.	.35
RR. Amherst Park to <del>W. Oshkosh</del>	1.00
meals - this evening	.25
	2.5
	.50
	.35

my meals	3.5
	3.5
	3.5
	3.5
	3.5

~~Aug. 21 Sioux City, Ia~~

~~Orleans to Sibley 6.72~~

~~Transfer Sibley .25~~

~~Aug. 22 - Supp (2<sup>nd</sup>) + lodging 6.00~~

~~RR. to Sioux City 1.47.~~

~~Breakfast 1.10 .30~~

~~RR to Mc. Valley 1.52~~

~~Hotel Miller dinner + sup. 6.00~~

~~Team (to tourist) 1.50~~

~~Aug. 23 RR to Cedar Rapids 4.89~~

~~RR to Iowa City .50~~

Transfer & then  
back

Aug. 16 1909

Photos - Box 1 - Ohio

- 4 - Wilson's fish,
- 2 - Lake from lab
- 2 " " "
- 2 wheat fields from high pt.
- 2 Caldwells Barrels (shgs)
- 2 Hills n. of Miller's Bay

July - 16-19 09

July 16.	Car to Cedar Rapids	.50
" 17	RR to Omaha	5.41
	Elephant to Mo. Valley	1.50
	Bridgford	.60
	RR to Minn	.14
July 18 (Bells)	"	.25
	(Gumbles)	.25
July 19	(Mallions - Minn)	1.25
	RR. to Mandan	.28
	Hotel "	2.00
	RR. to Cedar Rapids	4.81
" "	Iowa City	1.04
	cab.	.25

July 2 - 1909

7 bushels <sup>50</sup> RR. to Omaha <sup>5.49</sup> \$5.99

Supper en route .55

RR. to Silver City 1.32

July 3 - (Took to Fremont 1.05

Lunch <sup>25</sup>; Roads

July 4 -

Breakfast, Fremont .25

RR. to Omaha 2.20

Team " 2.00

Feed 35, dinner 25 (main) .60

RR. to Mo. Valley .77

July 5 - Lodging <sup>50</sup> .50

July 6 Mo. Valley Breakfast <sup>50</sup> .50

RR. to Logan .14

RR. Logan to Co. Bluff .60

Supper " " .25

May 13, 1909.

car fare to Cimarron	.50
14-RR. to Mo. Valley	5.
Hotel    "    "	1.50
Livery   "    "	2.50
RR. to Duran -	
15 Hotel Duran -	1. <u>00</u>
Rd. to Train -	
Livery   "    "	
Lunch   "    "	25
RR. to Maeselton	
16. Hotel   "    "	1.50
Livery   "    "	2.00
"   ute <sup>35</sup> , hat <sup>50</sup>	85
<del>RR. to Maeselton</del> lunch	25
RR. to Cimarron -	
to Duran City	.50
Hack	.25

May 21 1909

Hack <sup>25</sup>	RR to CR <sup>.50</sup>	.90
2 RT to Zona		4.92
Lunch -		.45
Lunch		.36
RR. to Cimarron		4.22

nesting of common

Blue Rock Terns - 16  
nesting in the sand  
and a few grass

nesting of Common Tern  
mostly in the sand with a few

nesting in the grass  
mostly in the sand

nesting of Common Tern  
mostly in the sand

nesting of Common Tern  
mostly in the sand with a few  
nesting in the grass  
mostly in the sand

